Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

CLAIMS

1. (Original) A porphyrin compound containing a biotinyl group represented by Formula (I):

Por-A-Bi

wherein Por represents a porphyrin residue optionally forming a metal complex; Bi represents an optionally substituted biotinyl group; and A represents a C₁-C₃₀ hydrocarbyl group, or a C₁-C₃₀ heterohydrocarbyl group having 1-10 heteroatoms selected from a group consisting of oxygen, sulfur, and nitrogen.

- 2. (Original) The compound according to claim 1, wherein Por is a porphyrin residue that has formed a metal complex selected from a group consisting of heme a, heme b, heme c, variant heme c, heme d, heme d1, siroheme, and heme o.
- 3. (Currently Amended) The compound according to claim 1 or 2, wherein the Por is a heme b residue.
- 4. (Currently Amended) The compound according to claim 1, wherein the Por is a porphyrin residue selected from a group consisting of uroporphyrin-I, uroporphyrin-III, protoporphyrin-IX, protoporphyrin-IX), and hematoporphyrin-IX.
- 5. (Currently Amended) The compound according to <u>claim 1</u> any of claims 1 to 4, wherein the Bi is a biotinyl group.

- 6. (Currently Amended) The compound according to <u>claim 1</u> any of claims 1 to 5, wherein the A is a straight chain or branched alkylene group of 1-20 carbon atoms, and one or more than one of the non-adjacent CH₂ groups of the alkylene group is optionally substituted by NH- , NH- NH- , NHCO-, CONH-, N(C₁₋₃ alkyl)-, O-, S-, CO-, O- CO-, S- CO-, O-COO-, CO-S-, CO-O-, CH(halogen)-, CH(CN)-, CH=CH-, -NH- NH- CO- or CO- NH- NH-.
- 7. (Currently Amended) The compound of claim 1 any of claims 1 to 6, wherein the A is selected from a group consisting of
- NH- NH-,
- NH- NH- CO- (CH₂)_n- NH-,
- NH- NH- CO- (CH₂)_n- NH- CO- (CH₂)_n- NH-,
- NH- (CH₂)_n- NH-,
- NH- NH- CO- (CH₂)_n- NH-,
- NH- NH- CO- (CH₂)_n- CO- NH- NH-,
- NH- $(CH_2)_{n}$ CO- NH- NH-, and
- $NH(CH_2)_n$ CO- NH- $(CH_2)_n$ CO- NH- NH-

in these formulae each n independently represents 1-10.

8. (Original) A method for preparing the porphyrin compound containing a biotinyl group according to claim 1, comprising reacting a porphyrin optionally forming a metal complex with a compound containing a terminally aminated biotinyl group in the presence of a coupling agent.

- 9. (Original) A hemoprotein purification method, comprising a step of performing affinity chromatography using the compound according to claim 1.
- 10. (Original) A hemoprotein purification kit, comprising the compound according to claim 1 and carrier beads with an avidin compound bonded thereto.
- 11. (Original) A hemoprotein labeling compound that is the compound according to claim 1.
- 12. (Original) A method for detecting hemoprotein using the labeling compound according to claim 11.
- 13. (Original) A diagnostic agent for hemoprotein-associated diseases, comprising the labeling compound according to claim 11.
- 14. (Original) A therapeutic drug for photodynamic therapy, comprising the compound according to claim 4.